

## **Telco Systems' Device Test-Drives Mercedes**



### **Mercedes Benz**

Case study

#### **General Description**

Developing and engineering a new car is an important activity at Mercedes Benz. Whenever a new type of car is built, the prototype (also called "Erlkoenig") is put through stringent testing. In test runs, the new car is driven in real-life situations in many different locations worldwide. As part of these tests, the test cars are being subjected to extreme conditions like heath, dirt, sand and cold in order to check their real-life suitability.

During test-drives a tremendous amount of data is continuously collected to check many different parameters and to analyze them later on. This requires connecting all systems and data-collecting sensors to an Ethernet interface. Through the Ethernet interface, all data is transported to a computer system in the trunk of the car for analyzing.

#### **BATM's Customized Solution**

Mercedes-Benz AG was looking for a solution to interconnect all test and measurement instrumentation with the test equipment and data collection system.

The prerequisite for the equipment was of course functional operation in extreme ambient conditions, as well as to feed the equipment with the test-car's on-board 12 V DC power supply.

BATM Advanced Communications offered its customized device. This switch system was equipped with a tailor-made power supply unit to allow for uninterrupted operation under those extreme conditions and for connection to the non-standard power source in the test cars.

Additionally, in the climatic chambers of Mercedes-Benz, the equipment was exposed to the same extreme conditions as the test cars. The NSW-7308-E withstood the heat of a simulated desert as well as the extreme cold of a "polar climate". This convinced Mercedes-Benz's managers and engineers of its value for the development and testing of the new generation of cars.

Currently, NSW-7308-E is a trusted assistant to one of the most innovative and prestigious car manufacturers. You will be able to see the tangible effect of its work at the next motor show in your area. The rest, as saying goes, will be history.